



FIG. 1

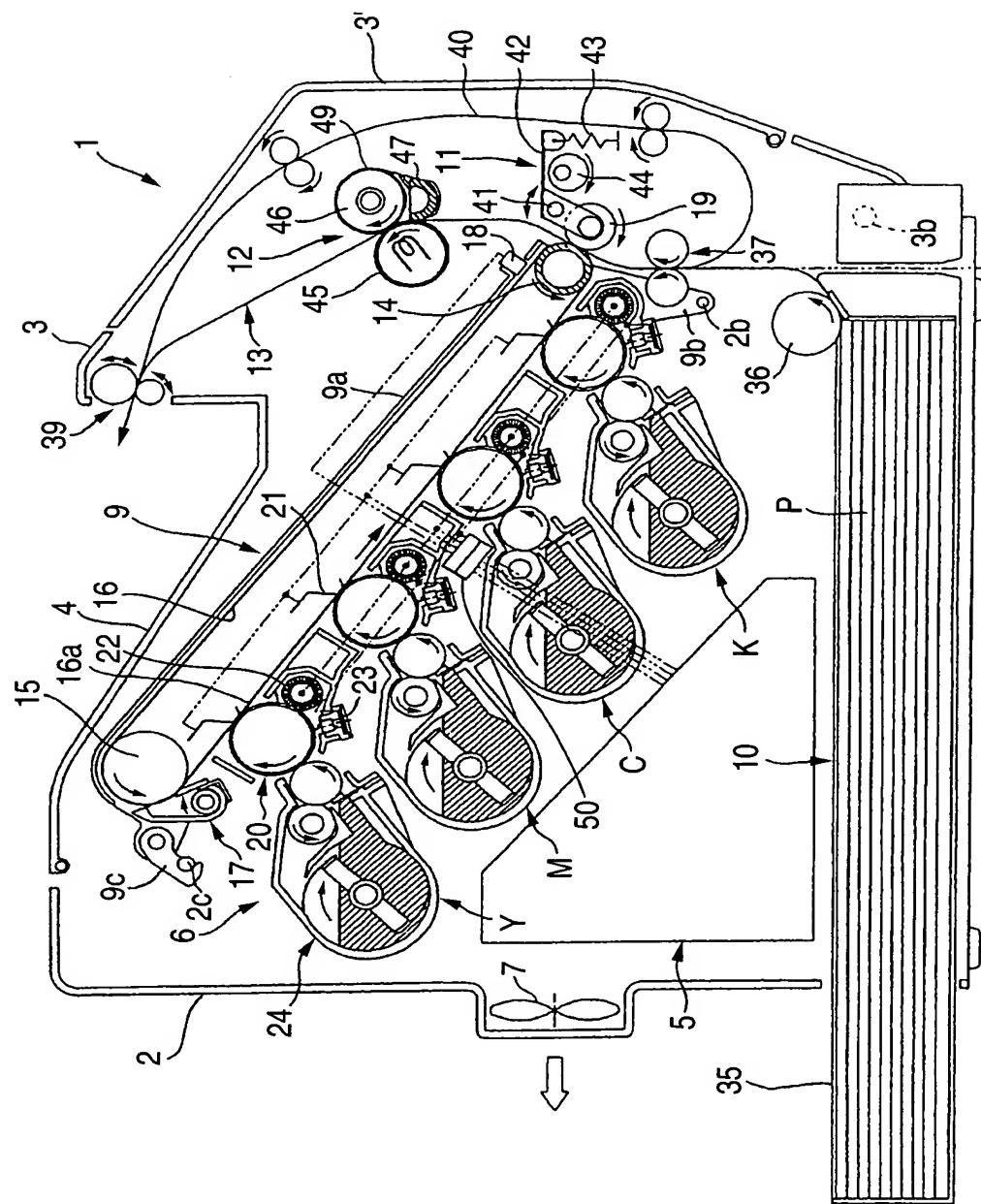


FIG. 2

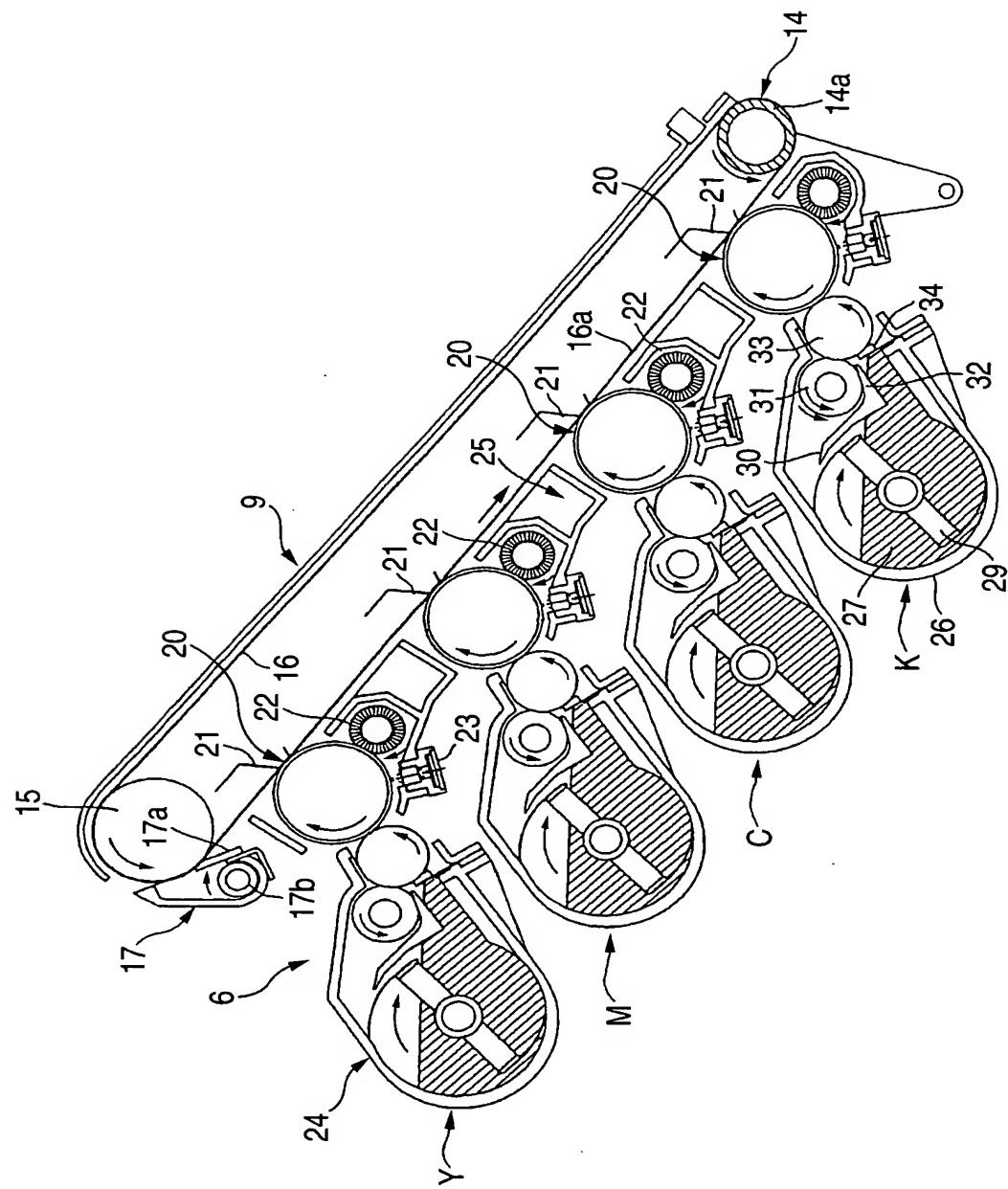


FIG. 3

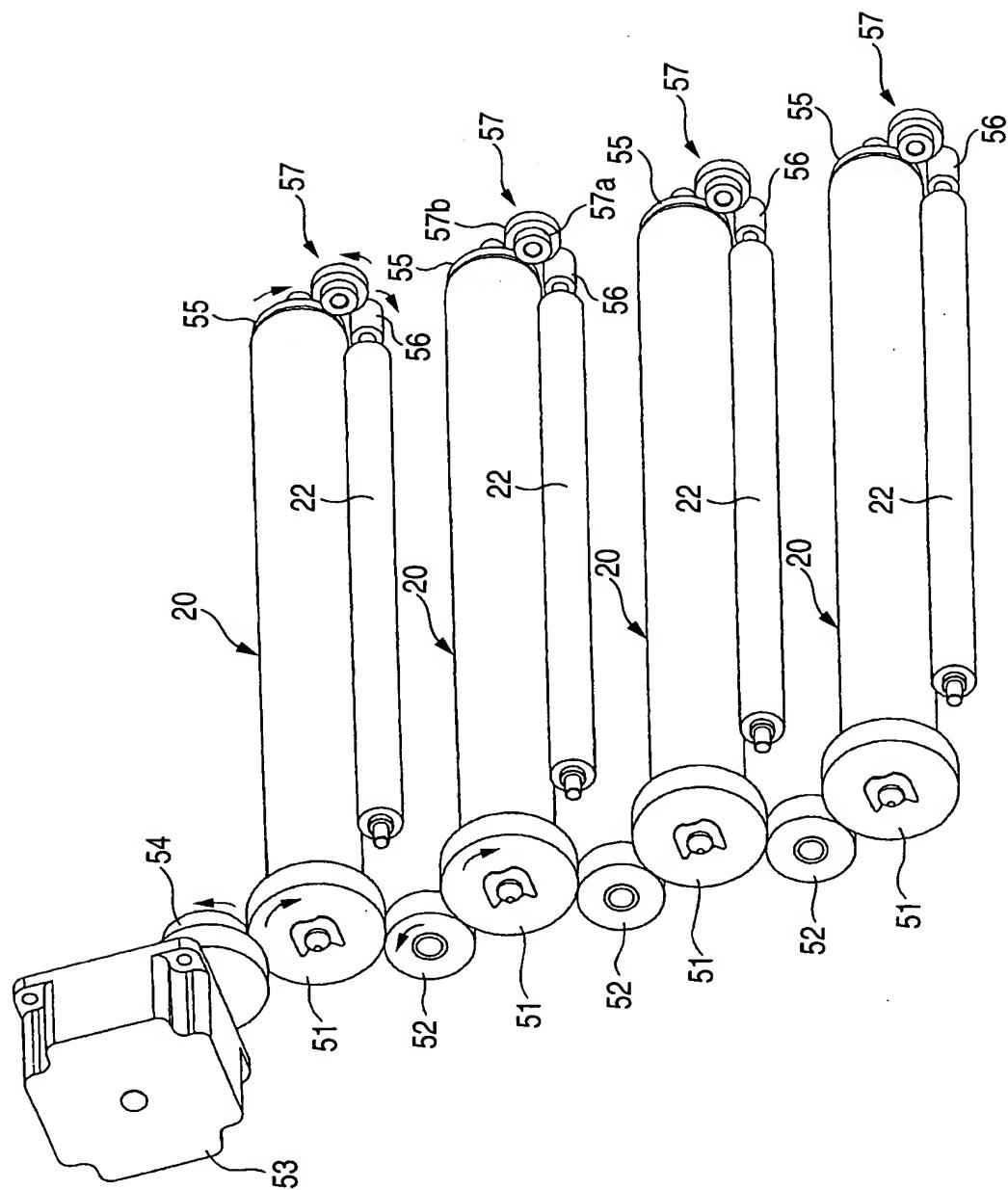


FIG. 4

	COMPARATIVE EXAMPLE 1	EMBODIMENT 1		
	PHOTOSENSITIVE MEMBER	PHOTOSENSITIVE MEMBER	STEP-UP GEAR	BRUSH ROLLER
OUTER DIAMETER (mm)	30	30	-	14
TEETH NUMBER				
			57a	56
		20	22	
				56
			57b	
MODULE: 0.5				
TRANSFER EFFICIENCY: 0.95				
NUMBER OF REVOLUTIONS (rpm)	99.10	99.10	239.49	419.11
PERIPHERAL VELOCITY (mm/SEC)	155.67	155.67	-	307.22
DRIVING TORQUE (N.m)				
PHOTOSENSITIVE MEMBER	0.0245	0.0245		
BRUSH ROLLER	0	0.0230	0.0090	0.0049
<TOTAL>	<u>0.0245</u>	<u>0.0475</u>		

FIG. 5

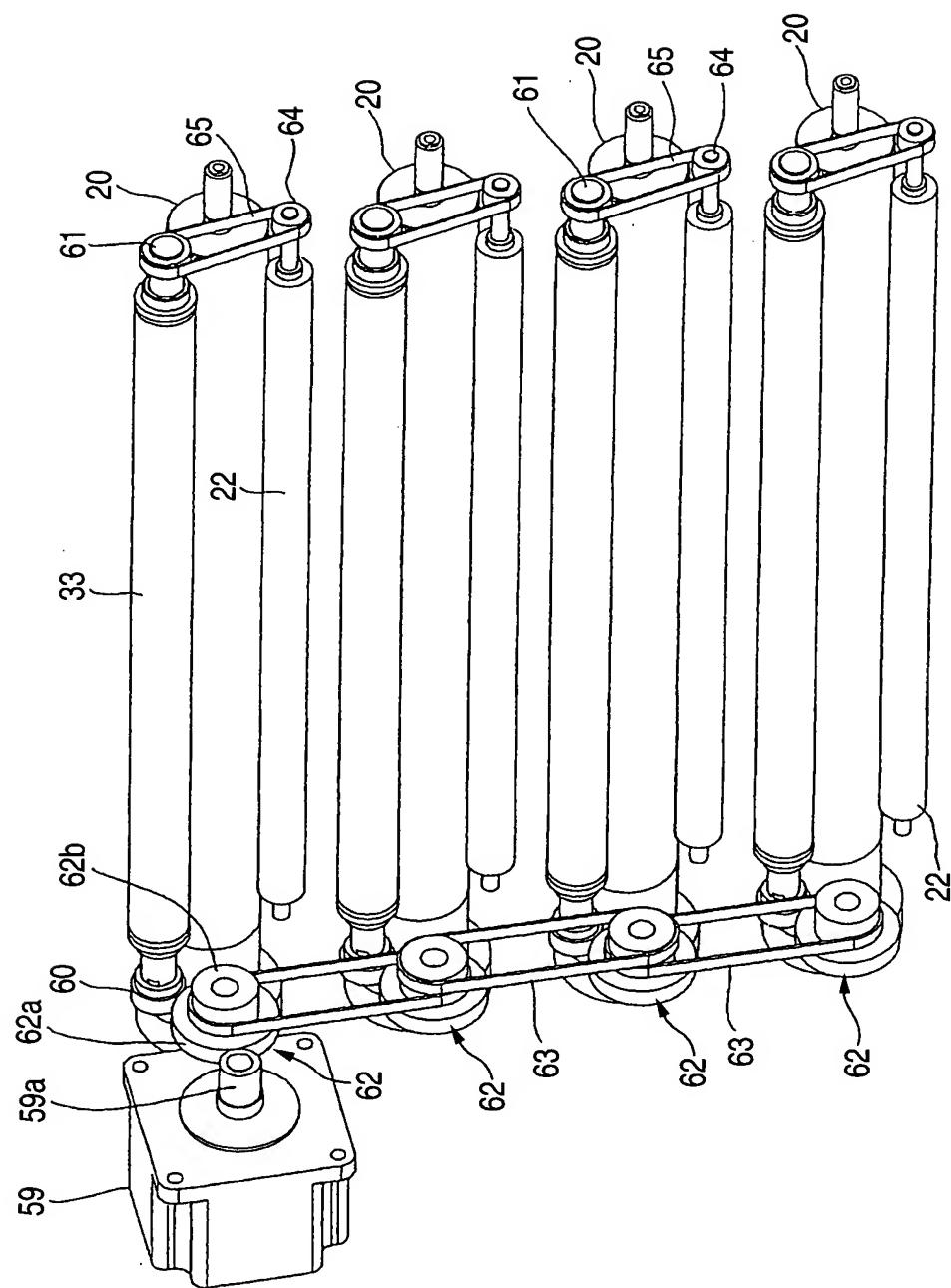


FIG. 6

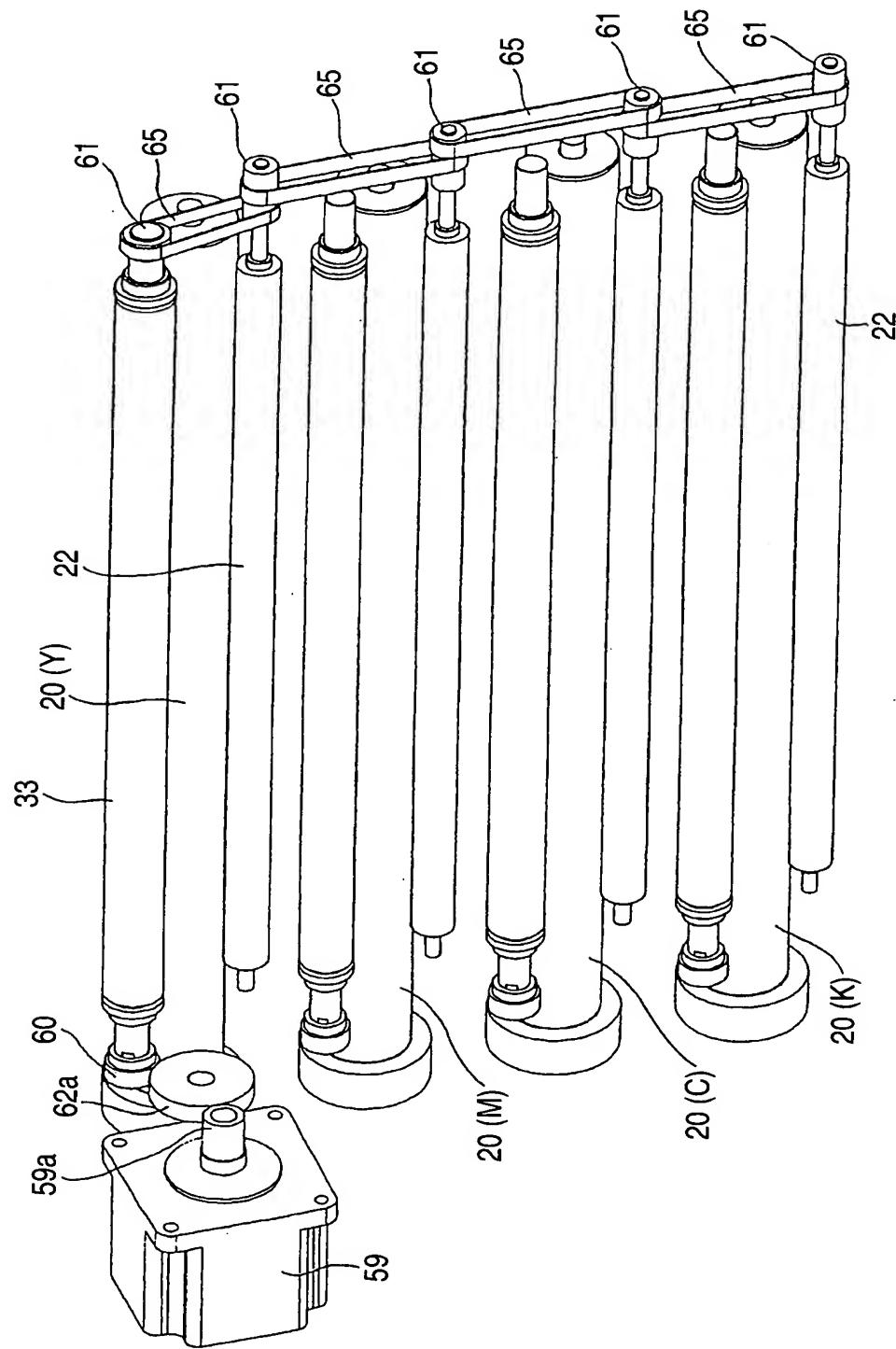


FIG. 7

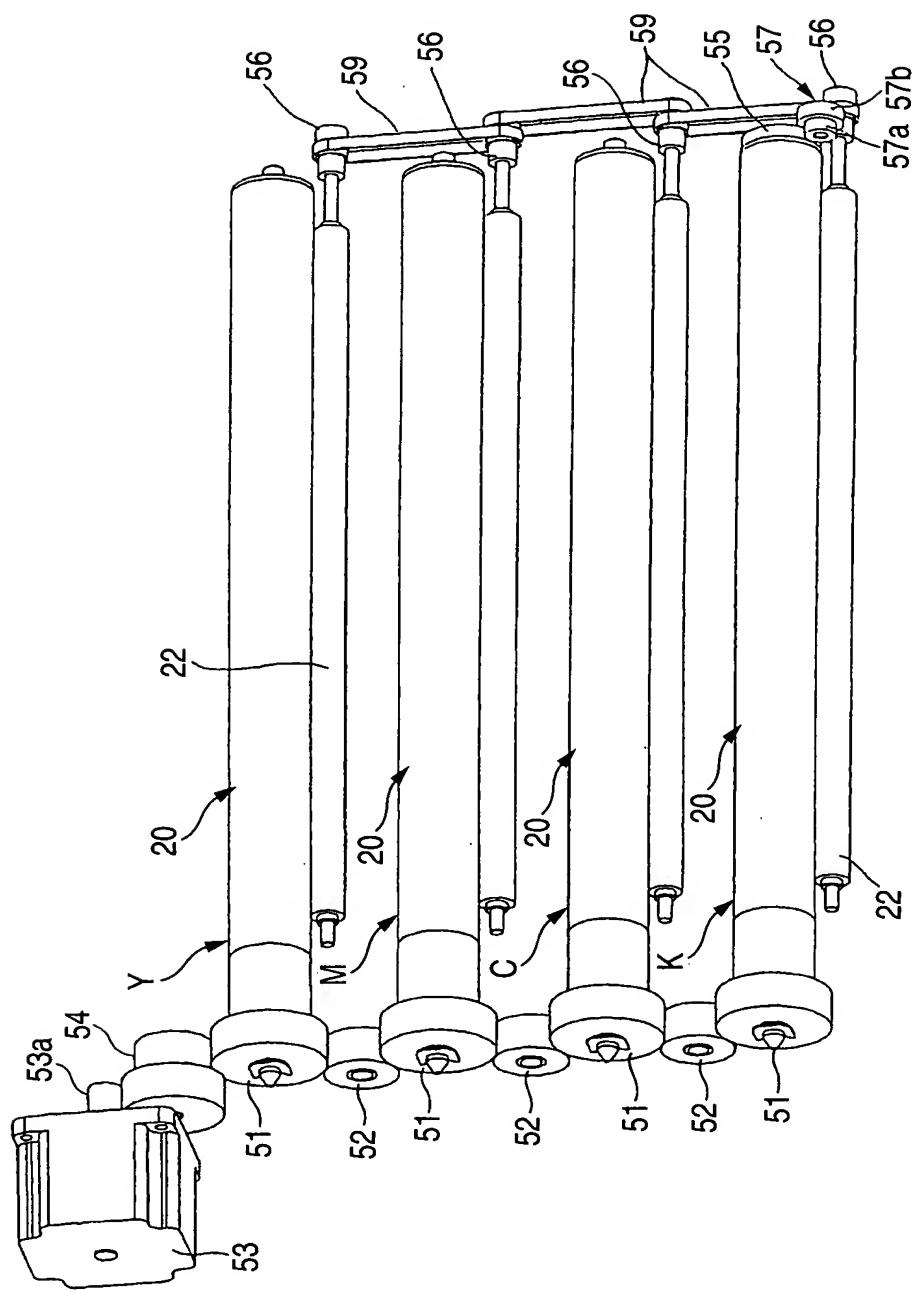


FIG. 8

NAME OF MEMBER	PHOTORESITIVE MEMBER (K)	INTER-MEDIATE SHAFT	BRUSH ROLLER (K) ROLLER (C)	BRUSH ROLLER (M) ROLLER (Y)
OUTER DIAMETER (mm)	30	-	14	14
TEETH NUMBER	30	-	14	14
MODULE: 0.5	20K	57a	22M	22Y
TRANSFER EFFICIENCY: 0.95	55	56	22C	59
	57	57b	59	59
NUMBER OF REVOLUTIONS (rpm)	99.10	239.49	419.11	419.11
PERIPHERAL VELOCITY (mm/SEC)	155.67	-	307.22	307.22
DRIVING TORQUE (N.m)				
BRUSH ROLLER (Y)	0.0230	0.0090	0.0049	
BRUSH ROLLER (M)	0.0242	0.0095	0.0049	
BRUSH ROLLER (C)	0.0254	0.0100	0.0054	0.0049
BRUSH ROLLER (K)	0.0268	0.0105	0.0057	0.0052
<TOTAL>	<u>0.0994</u>			

FIG. 9

FIG. 10

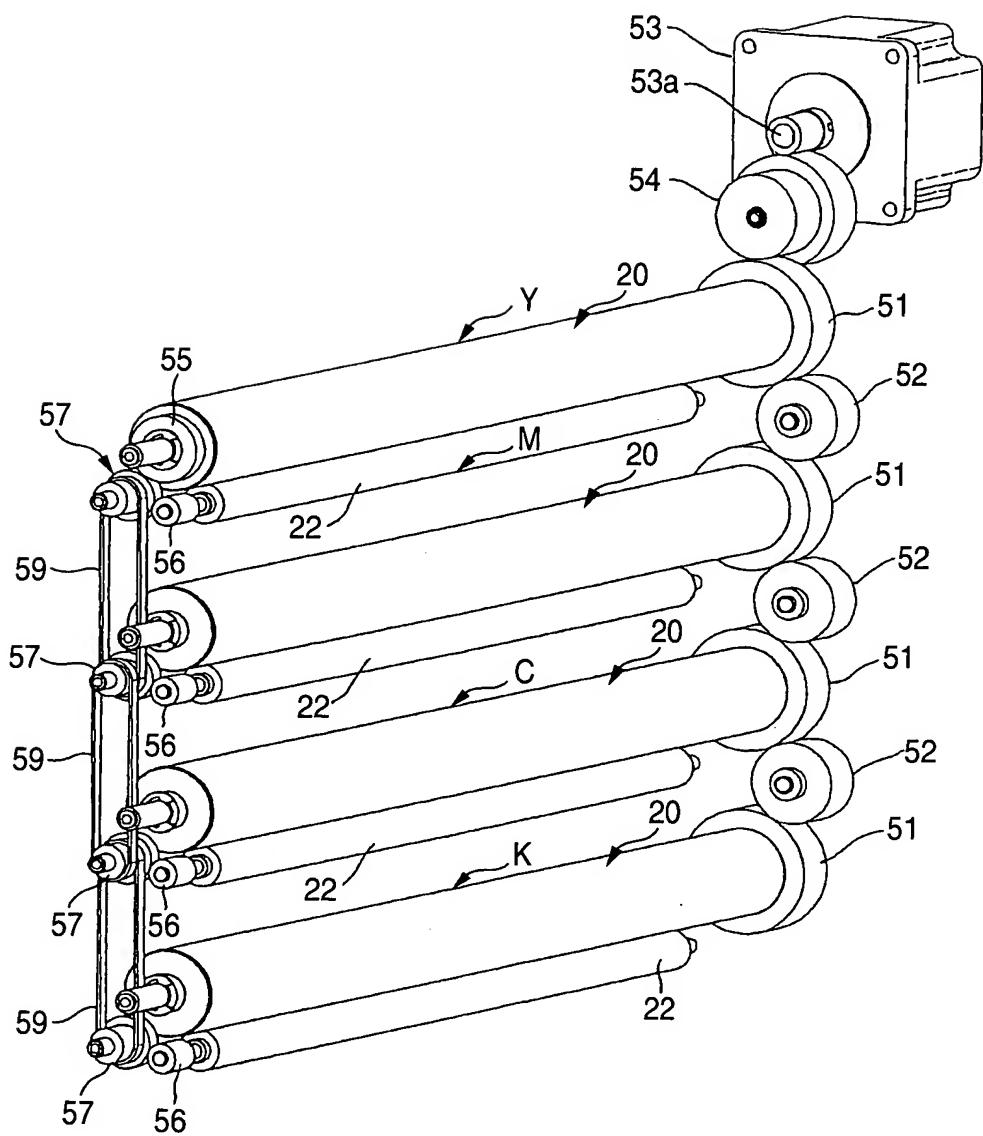


FIG. 11

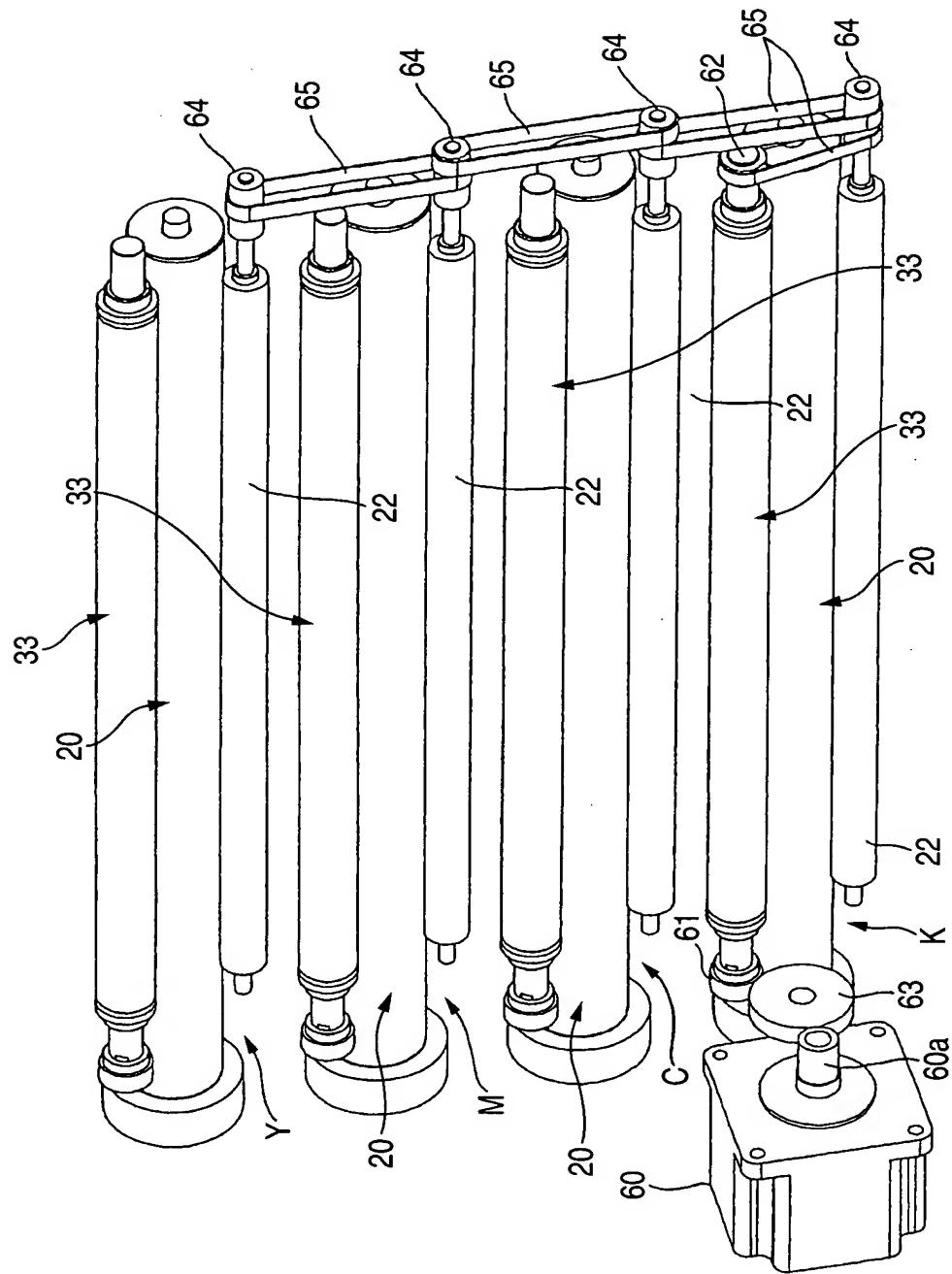


FIG. 12

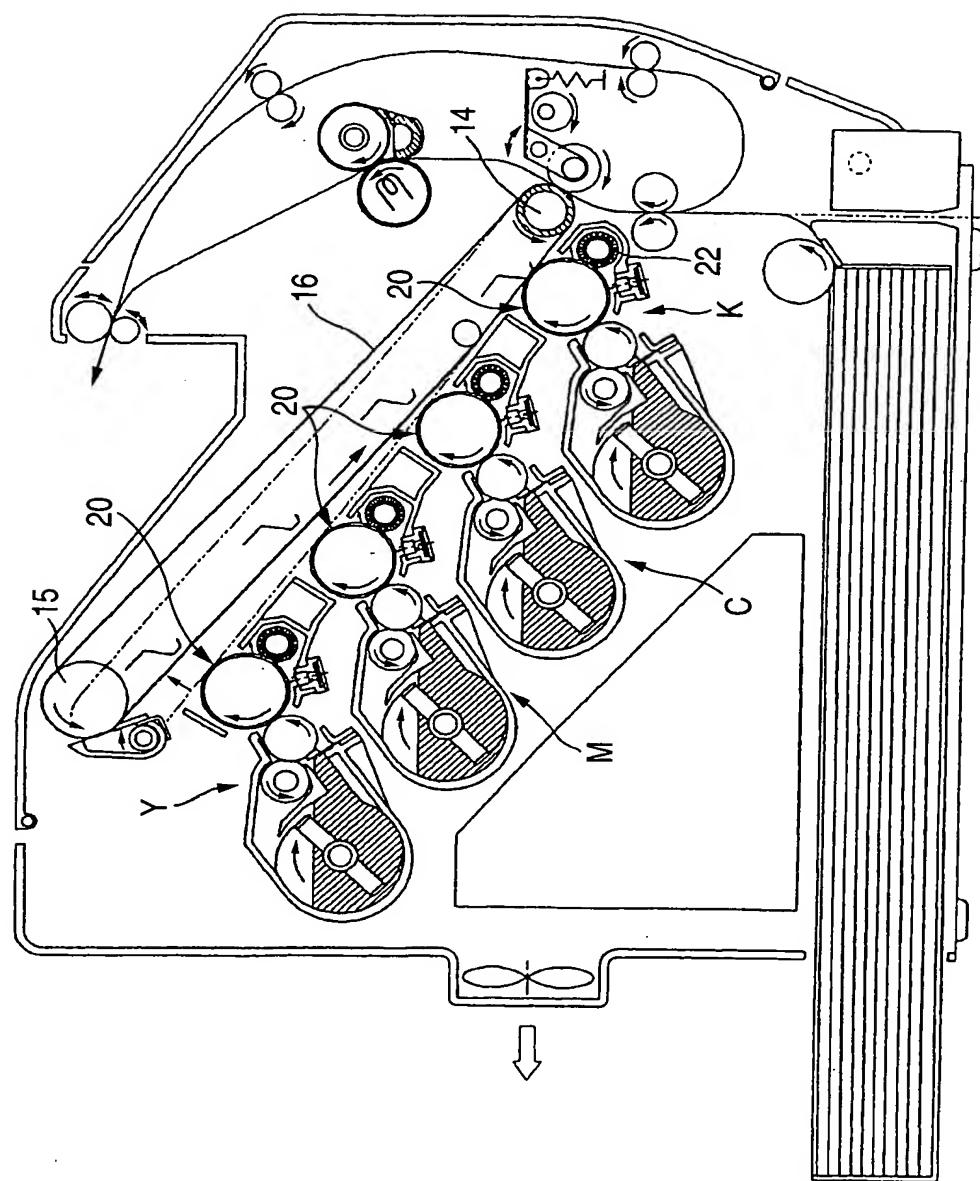


FIG. 13

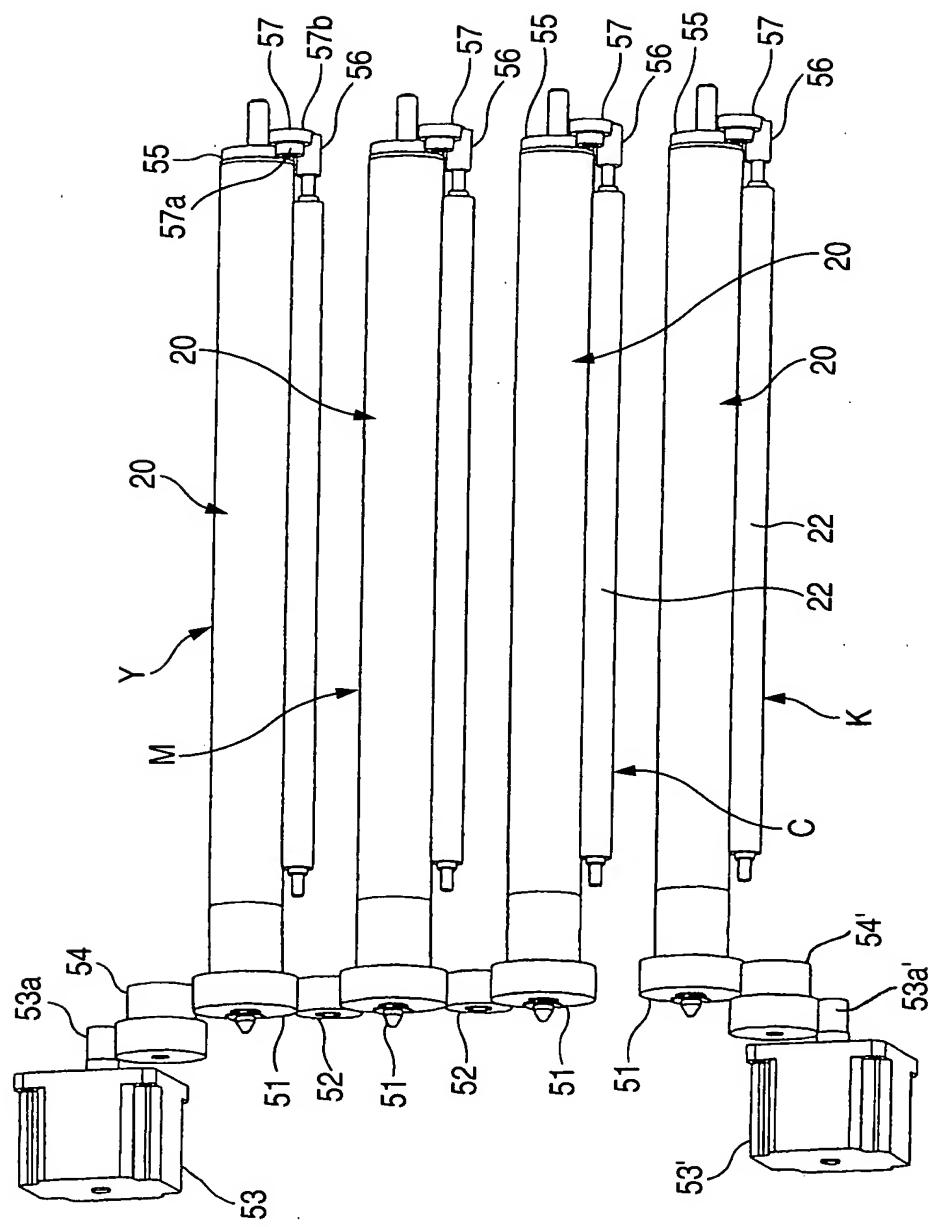


FIG. 14

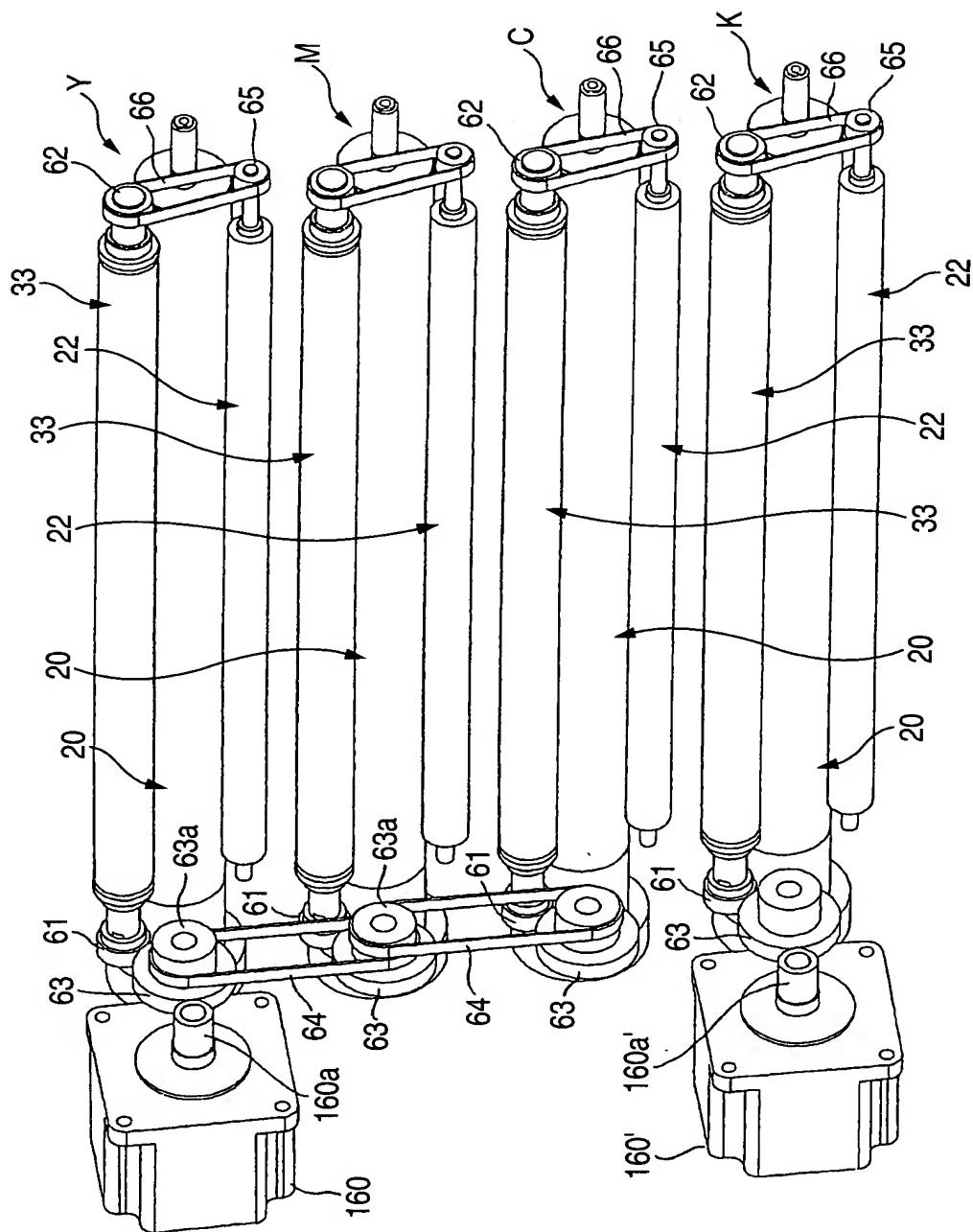


FIG. 15

